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1 [Scalability and performance of an agent-based network management middleware](#)

Alan Bivens, Rashim Gupta, Ingo McLean, Boleslaw Szymanski, Jerome White
March International Journal of Network Management, Volume 14 Issue 2
2004

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(269.74 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 108, Citation Count: 0

Rapid growth of computer network sizes and uses necessitate analysis of network application middleware in terms of its scalability as well as performance. In this paper we analyze a distributed network management middleware based on agents that can be ...

2 [Topology discovery for public IPv6 networks](#)



Daniel G. Waddington, Fangzhe Chang, Ramesh Viswanathan, Bin Yao

July 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 3

Publisher: ACM

Full text available: [pdf\(182.34 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 198, Citation Count: 0

In just three decades the Internet has grown from a small experimental research network into a complex network of routers, switches, and hosts. Understanding the topology of such large scale networks is essential to the procurement of good architectural ...

Keywords: IPv6, IPv6 network topology discovery, network measurement, network probing, topology inference

3 [An accurate technique for measuring the wireless side of wireless networks](#)

Jihwang Yeo, Moustafa Youssef, Tristan Henderson, Ashok Agrawala

June 2005 WiTMeMo '05: Papers presented at the 2005 workshop on Wireless traffic measurements and modeling

Publisher: USENIX Association

Full text available: [pdf\(290.41 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 68, Citation Count: 2

Wireless monitoring (WM) is a passive approach for capturing wireless-side traffic with rich MAC/PHY layer information. WM can suffer, however, from low capture performance, i.e., high measurement loss, due to the unreliable wireless medium. In this ...

4 [Monitoring data archives for grid environments](#)

Jason Lee, Dan Gunter, Martin Stoufer, Brian Tierney

November 2002 Supercomputing '02: Proceedings of the 2002 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society Press

Full text available: [pdf\(107.31 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 36, Citation Count: 2


Developers and users of high-performance distributed systems often observe performance problems such as unexpectedly low throughput or high latency. To determine the source of these performance problems, detailed end-to-end monitoring data from applications, ...

5 Dynamic scheduling of network resources with advance reservations in optical grids

Savera Tanwir, Lina Battestilli, Harry Perros, Gigi Karmous-Edwards

March International Journal of Network Management, Volume 18 Issue 2
2008

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(887.43 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0



Advance reservation of lightpaths in grid environments is necessary to guarantee QoS and reliability. In this paper, we have evaluated and compared several algorithms for dynamic scheduling of lightpaths using a flexible advance reservation model. The ...

6 Dynamic Tool Integration in Heterogeneous Computer Networks

Wolfgang Mueller, Tim Schattkowsky, Heinz-Josef Eikerling, Jan Wegner

March DATE '03: Proceedings of the conference on Design, Automation and
2003 Test in Europe - Volume 1, Volume 1

Publisher: IEEE Computer Society

Full text available:  [pdf\(210.53 KB\)](#)  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#),
[references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 23, Citation Count: 0

Tool installation and automation of administrative tasks in heterogeneous computer networks becomes of increasing importance with the availability of complex heterogeneous computer networks. This article introduces a new approach for dynamic network ...


7 Detecting anomalies in network traffic using maximum entropy estimation



Yu Gu, Andrew McCallum, Don Towsley

October I MC '05: Proceedings of the 5th ACM SIGCOMM conference on Internet
2005 measurement

Publisher: ACM


Full text available:  [pdf\(165.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)


Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 21, Citation Count: 0

We develop a behavior-based anomaly detection method that detects network anomalies by comparing the current network traffic against a baseline distribution. The Maximum Entropy technique provides a flexible and fast approach to estimate the baseline ...

8 Adaptive distributed monitoring with accuracy objectives

 Alberto Gonzalez Prieto, Rolf Stadler
September 2006 INM '06: Proceedings of the 2006 SIGCOMM workshop on Internet network management

Publisher: ACM

Full text available:  [pdf\(148.56 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 29, Citation Count: 1

We present A-GAP, a novel protocol for continuous monitoring of network state variables, which aims at achieving a given monitoring accuracy with minimal overhead. Network state variables are computed from device counters using aggregation functions, ...

Keywords: adaptive systems, distributed management, large-scale distributed systems, real-time monitoring

9 Coverage area management for wireless sensor networks

Isabela G. Siqueira, Linnyer Beatrys Ruiz, Antonio A. F. Loureiro, José Marcos Nogueira
January 2007 International Journal of Network Management, Volume 17 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(244.97 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 364, Citation Count: 0

In this work, we present a self-management service for Wireless Sensor Networks (WSNs) that automatically controls the network redundancy. Based on a density control function, this service improves the monitoring potential of the sensor nodes. Our simulation ...

10 A connectionless approach to integrated network management

Jairo A. Gutiérrez
July 1998 International Journal of Network Management, Volume 8 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(67.46 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 89, Citation Count: 0


As computer networks become more complex and more heterogeneous ∥ often involving systems from multiple vendors), the importance of integrated network management increases. This paper proposes a model to represent an integrated network management ...

11 Survey of network-based defense mechanisms countering the DoS and DDoS problems



Tao Peng, Christopher Leckie, Kotagiri Ramamohanarao
April ACM Computing Surveys (CSUR), Volume 39 Issue 1
2007

Publisher: ACM

Full text available:  [pdf\(1.17 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 147, Downloads (12 Months): 2833, Citation Count: 0


This article presents a survey of denial of service attacks and the methods that have been proposed for defense against these attacks. In this survey, we analyze the design decisions in the Internet that have created the potential for denial of service ...

Key words: Botnet, DDoS, DNS reflector attack, DoS, IP spoofing, IP traceback, IRC, Internet security, SYN flood, VoIP security, bandwidth attack, resource management

12 Power line communication network trial and management in Korea

Jae-Jo Lee, Choong Seon Hong, Joon-Myung Kang, James Won-Ki Hong
November International Journal of Network Management, Volume 16 Issue 6
2006

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(1.33 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 221, Citation Count: 0

Power line communication (PLC) has become an important network access technology to conveniently and effectively provide various useful services such as remote meter reading, broadband Internet access, and home networking services. As the deployment ...

13 On accurate measurement of link quality in multi-hop wireless mesh networks



Kyu-Han Kim, Kang G. Shin
September MobiCom '06: Proceedings of the 12th annual international conference
2006 on Mobile computing and networking

Publisher: ACM

Full text available:  [pdf\(510.14 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 64, Downloads (12 Months): 995, Citation Count: 0

This paper presents a highly efficient and accurate link-quality measurement framework, called EAR (*Efficient and Accurate link-quality monitoR*), for multi-hop wireless mesh networks, that has several salient features. First, it exploits three ...

Keyw ords: asymmetric link quality, link-quality measurement, wireless mesh networks

14 A performance monitoring system for VoIP gateways



Adrian E. Conway

September 2000 WOSP '00: Proceedings of the 2nd international workshop on Software and performance

Publisher: ACM

Full text available: pdf(97.11 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 150, Citation Count: 0

Keyw ords: IP telephony, PRI statistics, dial peer, gateway, performance monitoring, voice-over-IP

15 Distributed XML-based network management using JPVM

Shaik Sirajuddin, Mohammed H. Sqalli

July 2006 International Journal of Network Management, Volume 16 Issue 4

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(727.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 82, Citation Count: 0

The proliferation of the Internet and related applications has led to an increasing need for a more efficient and scalable network management framework. As the size of networks increases, more challenges are presented to network managers. One of these ...

16 A unified approach for improving QoS and provider revenue in 3G mobile networks

Christoph Lindemann, Marco Lohmann, Axel Thümmler

June 2003 Mobile Networks and Applications, Volume 8 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(407.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 203, Citation Count: 1

In this paper, we introduce a unified approach for the adaptive control of 3G mobile networks in order to improve both quality of service (QoS) for mobile subscribers and to increase revenue for service providers. The introduced approach constantly monitors ...

Keywords: admission control in mobile system, performance evaluation of next generation mobile systems, pricing and revenue optimization, quality of service in mobile systems

17 A proposal to improve network throughput using a QoS building blocks approach
at Central University of Venezuela



María E. Villapol, Eric A. Gamess, Neudith Morales

October 2005 LANC '05: Proceedings of the 3rd international IFIP/ACM Latin American conference on Networking

Publisher: ACM

Full text available:  [pdf\(183.02 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 110, Citation Count: 0

Central University of Venezuela is the main university of Venezuela and has approximately 60,000 students and 16,000 staff members. The backbone network connects 11 colleges and many non-academic dependencies; some of them are located outside the main ...

Keywords: congestion control, quality of service (QoS), service models


18 Ultra-low power data storage for sensor networks



Gaurav Mathur, Peter Desnoyers, Deepak Ganesan, Prashant Shenoy

April 2006 IPSN '06: Proceedings of the fifth international conference on Information processing in sensor networks

Publisher: ACM

Full text available:  [pdf\(325.36 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 215, Citation Count: 7

Local storage is required in many sensor network applications, both for archival of detailed event information, as well as to overcome sensor platform memory constraints. While extensive measurement studies have been performed to highlight the trade-off ...

Keywords: embedded systems, energy efficiency, flash memory, sensor networks, storage

19 [An efficient and lightweight embedded Web server for Web-based network element management](#)

Hong-Taek Ju, Mi-Joung Choi, James W. Hong

September 2000 International Journal of Network Management, Volume 10 Issue 5

Publisher: John Wiley & Sons, Inc.


Full text available:  [pdf\(428.26 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 206, Citation Count: 1

An Embedded Web Server (EWS) is a Web server which runs on an embedded system with limited computing resources to serve embedded Web documents to a Web browser. By embedding a Web server into a network device, it is possible to provide a Web‐base

20 [Fault management in event-driven wireless sensor networks](#)

 Linnyer Beatrys Ruiz, Isabela G. Siqueira, Leonardo B. e Oliveira, Hao Chi Wong, José Marcos S. Nogueira, Antonio A. F. Loureiro

October 2004 MSWiM '04: Proceedings of the 7th ACM international symposium on Modeling, analysis and simulation of wireless and mobile systems

Publisher: ACM

Full text available:  [pdf\(196.15 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 178, Citation Count: 3

Wireless Sensor Networks (WSNs) have emerged as a new monitoring and control solution for a variety of applications. Although the behavior of a WSN is characterized by the type of its application, a common element exist: faults are a normal fact, not ...

Keywords: fault management, network monitoring, self-management, wireless sensor networks

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